

What is claimed is:

- 1           1.     A truck mounted rotating broom system comprising:  
2                 a rotating broom mounting and control assembly;  
3                 a support structure mounted to the truck; and  
4                 a non-rigid connection therebetween.
  
- 1           2.     The truck mounted rotating broom system as defined in claim 1 wherein  
2     said support structure includes:  
3                 a substantially stationary gooseneck assembly; and  
4                 a swinging trunnion assembly rotatably connected to said substantially  
5     stationary gooseneck assembly.
  
- 6           3.     The truck mounted rotating broom system as defined in claim 1 wherein  
7     said non-rigid connection includes a floating beam and a four bar connection between  
8     said swinging trunnion assembly and said floating beam.

1           4.     A truck mounted rotating broom system comprising:  
2                 a support structure including:  
3                     a substantially stationary gooseneck assembly constructed and  
4                     arranged to mount to the front of the truck; and  
5                     a swinging trunnion assembly constructed and arranged for  
6                     rotatable connection to said substantially stationary gooseneck assembly;  
7                     means for controlling the position of said swinging trunnion assembly  
8                 with respect to said gooseneck assembly;  
9                     a non-rigid connection including a floating beam assembly; and  
10                a broom positioning, supporting, and rotating assembly connected to said  
11                floating beam assembly.

1           5.     The system as defined in claim 1 wherein said non-rigid connection  
2                 includes a multiple link attachment mechanism.

1           6.     The mounting assembly as defined in claim 1 wherein said rotating  
2 mounting and control assembly includes:

3                   a substantially horizontal beam including a left portion, a right portion,  
4 and a central portion;

5                   a first caster assembly constructed and arranged for mounting to said left  
6 portion of said substantially horizontal beam;

7                   a second caster assembly constructed and arranged for mounting to said  
8 right portion of said substantially horizontal beam;

9                   a first pivot arm assembly connected to the left end of said substantially  
10 horizontal beam;

11                  a second pivot arm assembly connected to the right end of said  
12 substantially horizontal beam;

13                  means for mounting said non-rigid connection to said substantially  
14 horizontal beam; and

15                  means for providing rotational power to the rotating broom.

- 1           7.     A system for removing snow from a paved surface, comprising:  
2                 a truck;  
3                 a rotating broom system mounted to the front of said truck;  
4                 said rotating broom system including:  
5                     a positioning, supporting, and rotating assembly for a rotating  
6                 broom;  
7                     a support structure mounted to said truck; and  
8                     a non-rigid connection between said positioning, supporting, and  
9                 rotating assembly and said support structure.